



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 24, 2018

Cynthia Ann Smith
U.S. Agent
Kaken Pharmaceutical Co., Ltd.
c/o Conn & Smith, Inc.
6713 Catskill Road
Lorton, VA 22079

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Revise the directions for use section of label to indicate that the product may not be applied by chemigation to turf and ornamentals in California.
Product Name: ENDORSE Water Dispersible Granules
EPA Registration Number: 68173-3
Application Date: 07/11/2018
OPP Decision Number: 542632

Dear Ms. Smith:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may

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not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact James Parker by phone at (703) 306-0469 or via email at parker.james@epa.gov.

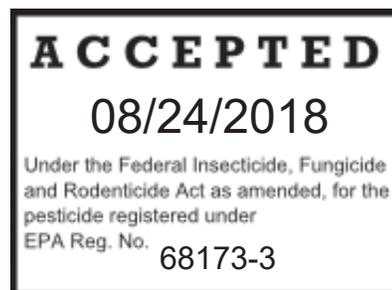
Sincerely,

A handwritten signature in blue ink that reads "Andrew C. Bryceland". The signature is fluid and cursive, with the first name "Andrew" and last name "Bryceland" clearly legible.

Andrew Bryceland, Team Leader
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure

**ENDORSE Water Dispersible Granules
(EPA Reg. No. 68173-3)**



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Master Label

POLYOXIN D ZINC SALT	GROUP	19	FUNGICIDE
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ENDORSE® Water Dispersible Granules
For Use on Turf, Ornamentals, and Various Crops

Alternate text: For disease control on various crops including: cucurbit vegetables, fruiting vegetables, herbs and spices, pome fruits, strawberries, and non-bearing fruit vines, and non-bearing fruit and nut trees
Alternate text: For disease control on Turf, Ornamentals, Christmas Trees, and various crops including: cucurbit vegetables, fruiting vegetables, herbs and spices, pome fruits, strawberries, and non-bearing fruit vines, and non-bearing fruit and nut trees
Alternate text: For use on Turf, Ornamentals, and Listed Food Crop Seedlings and Transplants grown only in a Greenhouse, Lath house, Shade House, Hoop Structure, or High Tunnel Structure For Non-Food Use Only.

ACTIVE INGREDIENT:

Polyoxin D zinc salt 11.3%

OTHER INGREDIENTS: 88.7%

TOTAL 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE OR BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Alternate text for 33 lb bags: SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS. SEE THE ATTACHED COMPLETE LABEL FOR DIRECTIONS FOR USE.
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EPA Reg. No. 68173-3

EPA Est. No. _____

Kaken Pharmaceutical Co., Ltd.
28-8, Honkomagome 2-chome
Bunkyo-ku, Tokyo 113-8650, Japan

For Product Information Call _____

Net Content: 0.5 pounds
1 lb
2 lbs 6.4 oz (2.4 lb)
33 lb (15 kg)

FIRST AID	
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none">• Call poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
<p style="text-align: center;">HOTLINE NUMBERS</p> <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p style="text-align: center;">FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE</p> <p>Call PROSAR at 1-866-303-6952 or 1-651-632-8946 if calling from outside of the U.S.</p> <p><i>Alternate text:</i> Call CHEMTREC at 1-800-424-9300 or the Poison Control Center at 1-800-222-1222.</p>	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if absorbed through the skin, swallowed or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

All mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks
- Shoes
- Waterproof gloves

USER SAFETY REQUIREMENTS

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS
<ul style="list-style-type: none">• Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.• Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses. This pesticide is moderately toxic to aquatic invertebrates and fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not allow runoff into lakes, streams, ponds or public waterways. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

Granules exposed on soil surface may be hazardous to fish and aquatic invertebrates. Collect granules spilled during loading.

Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 4 hours unless wearing appropriate PPE.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, socks, shoes, waterproof gloves.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in the box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. Keep children and pets out of treated area until sprays have dried.

GENERAL INFORMATION

ENDORSE Water Dispersible Granules is not for use on turf being grown for commercial seed production.

ENDORSE Water Dispersible Granules is not for homeowner use to treat food crops.

ENDORSE Water Dispersible Granules is for use in controlling or suppressing certain diseases on almonds, cucurbit vegetables, fruiting vegetables, ginseng, grapes, pistachios, pome fruits, potatoes, strawberries, and seedlings or transplants of cucurbit vegetables and fruiting vegetables in a greenhouse, lath house, shade house, hoop structure, high tunnel structure, ornamentals (greenhouse, lath house, shade house, hoop structure, high tunnel structure, field, nursery, container, and residential and commercial landscapes), and turf (including golf courses, sod, residential lawns, parks, athletic fields, and commercial and institutional grounds) composed of cool and warm season grasses such as Bluegrass, Bentgrass, Fescue, Ryegrass, Bermudagrass, St. Augustinegrass, Zoysiagrass, or their mixtures.

Apply ENDORSE Water Dispersible Granules as a preventative or curative treatment in conjunction with good management practices.

RESISTANCE MANAGEMENT RECOMMENDATIONS

To delay fungicide/bactericide resistance, take one or more of the following steps:

- Rotate the use of this product or other Group 19 fungicides within a growing season sequence with different groups that control the same pathogens. Avoid application of more than the specified maximum number of applications and 2 consecutive sprays of this product or other fungicides in the same group in a season.
- Use tank mixtures with fungicide from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide/bactericide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide/bactericide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact your pesticide distributor or university extension specialist.

MIXING AND APPLICATION

When diseases not specified on this label are present or expected, it is appropriate to mix ENDORSE Water Dispersible Granules with appropriately labeled fungicides. When tank mixing ENDORSE Water Dispersible Granules with other products, observe all precautions and limitations on each separate product label. It is always advisable to conduct a tank mix compatibility test when you plan to mix this product with other products. To determine the physical compatibility of this product with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to approximately one quart of water with agitation. Add dry formulations first, then flowables, then emulsifiable concentrates last. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank. To assess the potential for phytotoxicity, test tank mixtures on a small number of plants prior to more widespread application.

Mixing instructions for ENDORSE Water Dispersible Granules:

- Fill spray tank with water to $\frac{1}{2}$ of the intended final volume.
- Start spray tank agitation.
- Add the appropriate amount of product to the tank according to the rates in the following tables. Follow the directions above for mixing other products in the spray tank.
- Agitate to ensure thorough mixing while adding the remaining required water.
- DO NOT allow the spray mixture to stand without agitation.

Mix only the amount of spray solution needed to treat the desired area.

Apply material with properly calibrated, hand held, mechanical or motorized spray equipment or by chemigation through appropriate sprinkler irrigation, flood, or drip systems. Do not apply by chemigation in California to turf and ornamentals.

For optimum control of labeled diseases, apply ENDORSE Water Dispersible Granules with sufficient water to provide thorough coverage.

CHEMIGATION

Do not apply by chemigation in California to turf and ornamentals.

Generic Requirements

1. Apply this product only through the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set, or hand move; flood (basin); or drip trickle irrigation systems. Do not apply this product through any other type of irrigation system.
2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
3. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
4. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
5. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Specific Requirements

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back towards the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being drawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

Non-Specific Requirements

1. Remove scale, pesticide residue, and other foreign matter from the chemical tank and the entire injector system. Flush with clean water.
2. Prepare a suspension of product in the mix tank or stock bucket. Fill the tank with 3/4 of the desired amount of water. Start agitation and add the required amount of product to the solution along with the remaining volume of water.
3. Maintain a gentle agitation in the mix tank during application to assure a uniform suspension. Follow mixing instructions and tank mixing instructions previously indicated.
4. Start system and then uniformly inject the suspension of ENDORSE into the irrigation line so as to deliver the desired rate per acre. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation system.
5. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time.
6. The suspension of ENDORSE should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

Sprinkler (Overhead) Chemigation

Observe all instructions in the Generic Requirements, Specific Requirements, and Non-Specific Requirements sections above and the following additional requirements:

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
3. Set sprinkler system to deliver 1/10 to 1/4 inches of water per acre. Volumes of water higher than this may reduce efficacy. Application of greater than specified quantities of irrigation water per acre may result in decreased product performance. Where sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control may result.
4. When system connections or fittings leak, when nozzles do not provide uniform distribution, or when lines containing the product cannot be flushed and must be dismantled and drained in a center pivot system, block the nozzle set nearest the well pivot injection unit to prevent spray being applied to this area. Allow sufficient time for pesticides to be flushed through all lines and all nozzles before turning off irrigation water.

Flood (Basin) Chemigation

1. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and down stream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.
2. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements: Observe all instructions in the Generic Requirements, Specific Requirements, and Non-Specific Requirements sections above and items 1 and 2 of the Sprinkler Irrigation Requirements.

Drip (Trickle) Chemigation

Observe all instructions in the Generic Requirements, Specific Requirements, and Non-Specific Requirements sections above.

ALMONDS		
Disease Control	Rate	Application Notes
Alternaria <i>(Alternaria alternata)</i>	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> • Mix in appropriate spray volume appropriate for sufficient coverage (Spray every row to ensure coverage [avoid every other row applications]). • Begin sprays preventatively and repeat on a 10–14 day interval. • 0 day Preharvest Interval. • May be applied by ground or chemigation. • Do not apply by air. • Use of an adjuvant may enhance coverage.
Notes: <ul style="list-style-type: none"> • Use in alternation with fungicides that have different modes of action. • Do not apply more than 3 applications of ENDORSE Water Dispersible Granules (2.1 oz ai/acre) per season. 		

CUCURBIT VEGETABLES †		
[Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra), <i>Momordica</i> spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin, Squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash), Watermelon]		
Disease Control	Rate	Application Notes
Powdery Mildew (<i>Sphaerotheca</i> sp.)	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> • Mix in appropriate spray volume appropriate for sufficient coverage. • For all diseases, spray product preventatively and continue as needed on a 10-14 day interval. • May be applied by ground or chemigation. • 0 day Preharvest Interval.
Gummy Stem Blight (<i>Didymella bryoniae</i>)		
Gray Mold (<i>Botrytis</i> sp.)		
Corynespora leaf spot (<i>Corynespora cassicola</i>)		
Scab (<i>Cladosporium</i> sp.)		
Early Blight (<i>Alternaria</i> sp.)		
Notes: † Not for Use in California. <ul style="list-style-type: none"> • Use in alternation with fungicides that have different modes of action. • Do not apply more than 5 applications of ENDORSE Water Dispersible Granules (3.5 oz ai/acre) per season. 		

FRUITING VEGETABLES (Except Cucurbits) † [Eggplant, Groundcherry, Pepino, Pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, Tomato]		
Disease Control	Rate	Application Notes
Powdery Mildew (<i>Leveillula taurica</i> , <i>Oidiopsis sipula</i>)	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> Mix in appropriate spray volume appropriate for sufficient coverage. For all diseases, spray product preventatively and continue as needed on a 10-14 day interval. May be applied by ground or chemigation. Do to apply by air. 0 day Preharvest Interval.
Botrytis Rot (<i>Botrytis</i> sp.)		
Early Blight (<i>Alternaria solani</i>)		
Disease Suppression		
Anthracnose (<i>Colletotricum coccodes</i>)		
Notes:		
† Not for Use in California.		
• Use in alternation with fungicides that have different modes of action.		
• Do not apply more than 5 applications of ENDORSE Water Dispersible Granules (3.5 oz ai/acre) per season.		

GINSENG †		
Foliar Disease Control	Rate	Application Notes
Alternaria blight (<i>Alternaria panax</i>)	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> Apply as a foliar spray every 7–10 days. Apply prior to disease development and when conditions are conducive for disease.¹ May be applied by ground or chemigation.
Botrytis blight (<i>Botrytis cinerea</i>)		
Root and Crown Disease Control	Rate	Application Notes
Cylindrocarpon root rot (<i>Cylindrocarpon destructans</i>)	6.2 oz/acre (0.7 oz ai/acre)	• Apply as a drench every 14 days.
Rhizoctonia root and crown rot (<i>Rhizoctonia solani</i>)		• Apply as a drench every 14–28 days.
Notes:		
† Not for Use in California.		
† Consult your local extension agent or local recommendations for information relating to proper timing for control of these diseases.		
• Apply within 2 weeks following plant emergence and continue throughout the season.		
• Use in alternation with fungicides that have different modes of action.		
• Do not apply more than 3 applications of ENDORSE Water Dispersible Granules (2.1 oz ai/acre) per season.		

GRAPES		
Disease Control	Rate	Application Notes
Botrytis Bunch Rot <i>(Botrytis cinerea)</i> Powdery Mildew <i>(Uncinula necator)</i>	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> Mix in appropriate spray volume appropriate for sufficient coverage. For Botrytis Bunch Rot control, spray product at veraison and 7 days prior to harvest. For Powdery Mildew control, begin sprays preventatively and continue as needed on a 14 day interval. May be applied by ground or chemigation. Do not apply by air. 0 day Preharvest Interval.
Disease Suppression	Rate	Application Notes
Powdery Mildew <i>(Uncinula necator)</i>	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> For Powdery Mildew suppression, begin sprays preventively and continue as needed on a 14-day interval.
Notes: <ul style="list-style-type: none"> Use in alternation with fungicides that have different modes of action. Do not apply more than 3 applications of ENDORSE Water Dispersible Granules (2.1 oz ai/acre) per season. 		

HERBS AND SPICES †		
[Allspice, angelica, anise, anise, star, annatto (seed), balm, basil, borage, burnet, camomile, caper buds, caraway, caraway, black, cardamom, cassia bark, cassia buds, catnip, celery seed, chervil (dried), chive, chive, Chinese, cinnamon, clary, clove buds, coriander leaf (cilantro or Chinese parsley), coriander seed (cilantro), costmary, cilantro (leaf), culantro (seed), cumin, curry (leaf), dill (dillweed), dill (seed), fennel (common), fennel, Florence (seed), fenugreek, grains of paradise, horehound, hyssop, juniper berry, lavender, lemongrass, lovage (leaf), lovage (seed), mace, marigold, marjoram, mustard (seed), nasturtium, nutmeg, parsley (dried), pennyroyal, pepper, black, pepper, white, poppy (seed), rosemary, rue, saffron, sage, savory, summer and winter, sweet bay, tansy, tarragon, thyme, vanilla, wintergreen, woodruff, and wormwood.]		
Disease Control	Rate	Application Notes
Alternaria blight <i>(Alternaria panax)</i> Anthracnose <i>(Colletotrichum)</i> Botrytis blight <i>(Botrytis cinerea)</i> Curvularia Petiole Rot <i>(Myrothecium)</i> Powdery Mildew <i>(Oidium sp.)</i> <i>(Erysiphe sp.)</i> <i>(Sphaerotheca sp.)</i> Rhizoctinia aerial blight <i>(Rhizoctonia solani)</i>	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> • Apply prior to disease development and when conditions are conducive to disease development. • Apply as a full coverage foliar spray with sufficient water for plant type and maturity (50-300 gallons/acre). • For all diseases, spray product preventatively and continue as needed on a 10-14 day interval. • May be applied by ground or chemigation. • 0 day Preharvest Interval.
Root and Crown Disease Control	Rate	Application Notes
Rhizoctonia root and crown rot <i>(Rhizoctonia solani)</i> Black Root Rot <i>(Thielaviopsis)</i>	8.0 oz/gal/acre (0.96 oz ai/ 100 gal/acre)	<ul style="list-style-type: none"> • Apply prior to disease development and when conditions are conducive to disease development. • Apply as a soil drench every 14-28 days. • 0 day Preharvest Interval.
Notes: † Not for use in California.		
<ul style="list-style-type: none"> • Use in alternation with fungicides that have different modes of action. • Do not apply more than 5 applications of ENDORSE Water Dispersible Granules (3.5 oz ai/acre) per season. • Product may harm herbs and spices, especially new leaves. Do not apply to herbs and spices without prior testing on a small number of plants. 		

PISTACHIOS		
Disease Control	Rate	Application Notes
Alternaria (<i>Alternaria</i> sp.)	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> Mix in appropriate spray volume appropriate for sufficient coverage (Spray every row to ensure coverage (avoid every other row applications)). For both diseases, begin sprays preventatively and continue as needed on a 10–14 day interval. May be applied by ground or chemigation. Do not apply by air. Use of an adjuvant may enhance coverage. 0 day Preharvest Interval.
Disease Suppression		
Botryosphaeria blight (<i>Botryosphaeria</i> sp.)		
Notes:		
<ul style="list-style-type: none"> Use in alternation with fungicides that have different modes of action. Do not apply more than 3 applications of ENDORSE Water Dispersible Granules (2.1 oz ai/acre) per season. 		

POME FRUITS † [Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental Pear, Quince]		
Disease Control	Rate	Application Notes
Powdery Mildew (Apple: <i>Podosphaera leucotricha</i> Pear: <i>Phyllactinia mali</i>)	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> Mix in appropriate spray volume appropriate for sufficient coverage. Start sprays for scab control at green tip and continue as needed on a 7-10 day interval. For Powdery Mildew control, begin preventatively and repeat as necessary on a 10-14 day interval. Use of an alternation program with a sterol inhibiting fungicide is recommended. May be applied by ground or chemigation. Do not apply by air. 0 day Preharvest Interval.
Alternaria Leaf Spot (<i>Alternaria mali</i>)		
Blotch (<i>Diplocarpon mali</i>)		
Disease Suppression		
Scab (<i>Venturia</i> sp.)		
Notes:		
<ul style="list-style-type: none"> † Not for Use in California. Use in alternation with fungicides that have different modes of action. Do not apply more than 6 applications of ENDORSE Water Dispersible Granules (4.2 oz ai/acre) per season. 		

POTATOES †		
Disease Control	Rate	Application Notes
Early Blight (<i>Alternaria solani</i>)	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> Mix in appropriate spray volume appropriate for sufficient coverage. For all diseases, spray product preventatively and continue as needed on a 10-14 day interval. May be applied by ground or chemigation. Do not apply by air. 0 day Preharvest Interval.
Notes:		
<ul style="list-style-type: none"> † Not for Use in California. Use in alternation with fungicides that have different modes of action. Do not apply more than 5 applications of ENDORSE Water Dispersible Granules (3.5 oz ai/acre) per season. 		

STRAWBERRIES †		
Disease Control	Rate	Application Notes
Anthracnose Leaf and Fruit Rot <i>(Colletotricum sp.)</i> Botrytis Fruit Rot <i>(Botrytis cinerea)</i> Powdery Mildew <i>(Sphaerotheca macularis)</i>	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> • Mix in appropriate spray volume appropriate for sufficient coverage. • Begin applications preventatively and continue as needed on a 7–10 day interval. • May be applied by ground or chemigation. • Do not apply by air. • Use of adjuvant may enhance coverage. • 0 day Preharvest Interval.
Notes: † Not for Use in California. <ul style="list-style-type: none"> • Use in alternation with fungicides that have different modes of action. • Do not apply more than 3 applications of ENDORSE Water Dispersible Granules (2.1 oz ai/acre) per season. 		

ORNAMENTALS		
Foliar Disease Control	Rate	Application Notes
Anthracnose <i>(Colletotrichum)</i> Botrytis blight <i>(Botrytis cinerea)</i> Curvularia leaf blight <i>(Curvularia sp.)</i> Downy Mildew <i>(Peronospora sp.)</i> <i>(Plasmopara sp.)</i> Powdery Mildew <i>(Oidium sp.)</i> <i>(Erysiphe sp.)</i> <i>(Sphaerotheca sp.)</i> Rhizoctonia aerial blight <i>(Rhizoctonia solani)</i>	0.25 – 0.5 lb/100 gal/acre (0.03 – 0.06 lb ai/100 gal/acre)	<ul style="list-style-type: none"> • Apply as a full coverage foliar spray every 7 – 10 days with sufficient water for plant type and maturity (50-300 gallons/acre). • Apply prior to disease development and when conditions are conducive to disease development. Consult your local extension agent or local recommendations for information relating to proper timing for control of these diseases.** • May be applied by ground or chemigation. Do not apply by chemigation in California.
Alternaria blight <i>(Alternaria panax)</i> Petiole Rot <i>(Myrothecium)</i> Apple scab <i>(Venturia inaequalis)</i>	0.5 lb/100 gal/acre (0.06 lb ai/100 gal/acre)	
Root and Crown Disease Control	Rate	Application Notes
Rhizoctonia root and crown rot *** <i>(Rhizoctonia solani)</i>	0.25 – 0.5 lb/100 gal/acre (0.03 – 0.06 lb ai/100 gal/acre)	<ul style="list-style-type: none"> • Apply prior to disease development or when conditions are conducive to disease development. • Apply as a soil drench every 14 – 28 days. • May be applied by ground or chemigation. Do not apply by chemigation in California.
Black Root Rot <i>(Thielaviopsis)</i>	0.5 lb (0.06 lb ai/100 gal/acre)	
Notes: <ul style="list-style-type: none"> • Use in alternation with fungicides that have different modes of action. • Follow Resistance Management Recommendations. • DO NOT apply more than 6 applications of ENDORSE Water Dispersible Granules per season or 12 months. ** Consult your local extension agent or local recommendations for information relating to proper timing for control of these diseases. *** Includes Christmas tree (nursery and plantation), non-bearing fruit vines, and non-bearing fruit and nut trees. 		

TURF GRASSES		
Disease	Rate	Application Notes
Control	2.4 lbs /acre (0.27 lb ai/acre)	<ul style="list-style-type: none"> • Repeat treatment on a 7-14 day schedule where environmental conditions are conducive to development of diseases. Consult your local extension agent or local recommendations for information relating to proper timing for control of these diseases. • When symptoms are present, best control will be achieved by using a shorter interval. • For best results apply after mowing. • Apply to obtain thorough plant coverage in a minimum of 66 gallons water per acre. • May be applied by ground or chemigation. Do not apply by chemigation in California.
Brown Patch (<i>Rhizoctonia solani</i>)		
Large Patch (<i>Rhizoctonia solani</i>)		
Aids in Control †		
Cool Season Brown Patch or Yellow Patch (<i>Rhizoctonia cerealis</i>)		
Foliar and Basal Anthracnose (<i>Colletotrichum cereale</i>)		
Gray Snow Mold (<i>Typhula ishikariensis</i> and <i>Typhula incarnate</i>)		
Leaf Spot/Melting Out (<i>Dreschlera poae</i>)		
Pink Snow Mold (<i>Microdochium nivale</i>)		
Red Thread (<i>Laetisaria fuciformis</i>)		
Rhizoctonia Damping Off (<i>Rhizoctonia solani</i>)		
Rhizactonia Leaf and Sheath Blight (<i>Rhizoctonia zea</i>)		
Waitea Patch (Brown Ring Patch) (<i>Waitea circinata</i>)		
Zoysia Patch (<i>Rhizoctonia solani</i>)		
Aids in Suppression †	1 oz/1000 sq ft in minimum of 1 gallon of water (0.27 lb ai/acre in 66 gallons of water)	<ul style="list-style-type: none"> • Make two-three applications on a 7-day interval schedule. • Use a penetrating wetting agent. • Immediately following application, water in the treatment with sufficient irrigation (1/8-1/4") to wet the active root zone. • May be applied by ground or chemigation. Do not apply by chemigation in California.
Suppression and Short Term Control		
Gray Leaf Spot (<i>Pyricularia grisea</i>)		
Fairy Ring (including <i>Marasmius</i> spp., <i>Lepiota</i> , spp. and <i>Agarius</i> spp.)		

TURF GRASSES		
Disease	Rate	Application Notes
Notes: † Not for Use in California. • With the exception for treatment of Fairy Ring, irrigation or rainfall soon after treatment with ENDORSE Water Dispersible Granules will decrease disease control. For best control, do not irrigate for 12 hours after treatment. • Use in alternation with fungicides that have different modes of action. • Follow Resistance Management Recommendations. • DO NOT apply more than 6 applications of ENDORSE Water Dispersible Granules (1.62 lb AI/acre) per season or 12 months.		

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in dry place away from food or feed.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed, by State and local authorities, by burning. If burned, stay out of smoke.

**FOR 24-HOUR CHEMICAL EMERGENCY (Spill, Leak, Fire or Accident) ASSISTANCE:
CALL CHEMTREC 1-800-424-9300**

Warranty and Disclaimer Statement

1. The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Kaken Pharmaceutical Co. Ltd. ("Kaken"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.
2. Kaken warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.
3. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Kaken, and is subject to the inherent risks described above. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, KAKEN DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, KAKEN, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF KAKEN IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.**
4. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF KAKEN, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT KAKEN'S ELECTION, THE REPLACEMENT OF THE PRODUCT.**

Sublabel A (AFFIRM WDG)

Alternate Brand Name for ENDORSE Water Dispersible Granules:

- **AFFIRM™ WDG**

POLYOXIN D ZINC SALT

GROUP

19

FUNGICIDE

ENDORSE® Water Dispersible Granules

For Use on Turf, Ornamentals, and Listed Food Crop Seedlings and Transplants Grown Only in a Greenhouse, Lath House, Shade House, Hoop Structure, or High Tunnel Structure.

For Non-Food Use Only.

ACTIVE INGREDIENT:

Polyoxin D zinc salt **11.3%**

OTHER INGREDIENTS: **88.7%**

TOTAL: **100.0%**

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE OR BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Alternate text for 33 lb bags:

**SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS.
SEE THE ATTACHED COMPLETE LABEL FOR DIRECTIONS FOR USE.**

EPA Reg. No. 68173-3

EPA Est. No. _____

**Kaken Pharmaceutical Co., Ltd.
28-8, Honkomagome 2-chome
Bunkyo-ku, Tokyo 113-8650, Japan**

For Product Information Call _____

Net Content: 0.5 pounds
1 lb
2 lbs 6.4 oz (2.4 lb)
33 lb (15 kg)

FIRST AID	
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none">• Call poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If inhaled	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
<p style="text-align: center;">HOTLINE NUMBERS</p> <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR 24-HOUR EMERGENCY MEDICAL TREATMENT INFORMATION CALL 1-877-325-1840.</p>	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if absorbed through the skin, swallowed or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

All mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Socks
- Shoes
- Waterproof gloves

USER SAFETY REQUIREMENTS

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS
<ul style="list-style-type: none">• Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.• Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses. This pesticide is moderately toxic to aquatic invertebrates and fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not allow runoff into lakes, streams, ponds or public waterways. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

Granules exposed on soil surface may be hazardous to fish and aquatic invertebrates. Collect granules spilled during loading.

Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 4 hours unless wearing appropriate PPE.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, socks, shoes, waterproof gloves.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in the box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. Keep children and pets out of treated area until sprays have dried.

GENERAL INFORMATION

ENDORSE Water Dispersible Granules is not for use on turf being grown for commercial seed production.

ENDORSE Water Dispersible Granules is not for food use and not for homeowner use.

ENDORSE Water Dispersible Granules is for use in controlling or suppressing certain diseases on cucurbit vegetables, fruiting vegetables, ginseng, strawberries, and seedlings or transplants of cucurbit vegetables and fruiting vegetables in a greenhouse, lath house, shade house, hoop structure, or high tunnel structure; ornamentals (greenhouse, lath house, shade house, hoop structure, high tunnel structure, field, nursery, container, and residential and commercial landscapes); and turf (including golf courses, sod, residential lawns, parks, athletic fields, and commercial and institutional grounds) composed of cool and warm season grasses such as Bluegrass, Bentgrass, Fescue, Ryegrass, Bermudagrass, St. Augustinegrass, Zoysiagrass, or their mixtures.

Apply ENDORSE Water Dispersible Granules as a preventative or curative treatment in conjunction with good management practices.

RESISTANCE MANAGEMENT RECOMMENDATIONS

To delay fungicide/bactericide resistance, take one or more of the following steps:

- Rotate the use of this product or other Group 19 fungicides within a growing season sequence with different groups that control the same pathogens. Avoid application of more than the specified maximum number of applications and consecutive sprays of this product or other fungicides in the same group in a season.
- Use tank mixtures with fungicide from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide/bactericide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide/bactericide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact your pesticide distributor or university extension specialist.

MIXING AND APPLICATION

When diseases not specified on this label are present or expected, it is appropriate to mix ENDORSE Water Dispersible Granules with appropriately labeled fungicides. When tank mixing ENDORSE Water Dispersible Granules with other products, observe all precautions and limitations on each separate product label. It is always advisable to conduct a tank mix compatibility test when you plan to mix this product with other products. To determine the physical compatibility of this product with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to approximately one quart of water with agitation. Add dry formulations first, then flowables, then emulsifiable concentrates last. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank. To assess the potential for phytotoxicity, test tank mixtures on a small number of plants prior to more widespread application.

Mixing instructions for ENDORSE Water Dispersible Granules:

- Fill spray tank with water to $\frac{1}{2}$ of the intended final volume.
- Start spray tank agitation.
- Add the appropriate amount of product to the tank according to the rates in the following tables. Follow the directions above for mixing other products in the spray tank.
- Agitate to ensure thorough mixing while adding the remaining required water.
- DO NOT allow the spray mixture to stand without agitation.

Mix only the amount of spray solution needed to treat the desired area.

Apply material with properly calibrated, hand held, mechanical or motorized spray equipment or by chemigation through appropriate sprinkler irrigation, flood, or drip systems. Do not apply by chemigation in California to turf and ornamentals.

For optimum control of labeled diseases, apply ENDORSE Water Dispersible Granules with sufficient water to provide thorough coverage.

CHEMIGATION

Do not apply by chemigation in California to turf and ornamentals.

Generic Requirements

1. Apply this product only through the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set, or hand move; flood (basin); or drip trickle irrigation systems. Do not apply this product through any other type of irrigation system.
2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
3. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
4. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
5. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Specific Requirements

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back towards the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being drawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

Non-Specific Requirements

1. Remove scale, pesticide residue, and other foreign matter from the chemical tank and the entire injector system. Flush with clean water.
2. Prepare a suspension of product in the mix tank or stock bucket. Fill the tank with 3/4 of the desired amount of water. Start agitation and add the required amount of product to the solution along with the remaining volume of water.
3. Maintain a gentle agitation in the mix tank during application to assure a uniform suspension. Follow mixing instructions and tank mixing instructions previously indicated.
4. Start system and then uniformly inject the suspension of AFFIRM into the irrigation line so as to deliver the desired rate per acre. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation system.
5. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time.
6. The suspension of AFFIRM should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

Sprinkler (Overhead) Chemigation

Observe all instructions in the Generic Requirements, Specific Requirements, and Non-Specific Requirements sections above and the following additional requirements:

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
3. Set sprinkler system to deliver 1/10 to 1/4 inches of water per acre. Volumes of water higher than this may reduce efficacy. Application of greater than specified quantities of irrigation water per acre may result in decreased product performance. Where sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control may result.

4. When system connections or fittings leak, when nozzles do not provide uniform distribution, or when lines containing the product cannot be flushed and must be dismantled and drained in a center pivot system, block the nozzle set nearest the well pivot injection unit to prevent spray being applied to this area. Allow sufficient time for pesticides to be flushed through all lines and all nozzles before turning off irrigation water.

Flood (Basin) Chemigation

1. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and down stream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.
2. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements: Observe all instructions in the Generic Requirements, Specific Requirements, and Non-Specific Requirements sections above and items 1 and 2 of the Sprinkler Irrigation Requirements.

Drip (Trickle) Chemigation

Observe all instructions in the Generic Requirements, Specific Requirements, and Non-Specific Requirements sections above.

CUCURBIT VEGETABLES †, ✱		
[Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra), <i>Momordica</i> spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin, Squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash), Watermelon]		
Disease Control	Rate	Application Notes
Powdery Mildew (<i>Sphaerotheca</i> sp.)	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> • Mix in appropriate spray volume appropriate for sufficient coverage. • For all diseases, spray product preventatively and continue as needed on a 10-14 day interval. • 0 day Preharvest Interval.
Gummy Stem Blight (<i>Didymella bryoniae</i>)		
Gray Mold (<i>Botrytis</i> sp.)		
Corynespora leaf spot (<i>Corynespora cassicola</i>)		
Scab (<i>Cladosporium</i> sp.)		
Early Blight (<i>Alternaria</i> sp.)		
Notes: † Not for Use in California. ✱ For use in a greenhouse, lath house, shade house, hoop structure, or high tunnel structure for production of seedlings and transplants only. Not for field use. Not for production of edible commodities. <ul style="list-style-type: none"> • Use in alternation with fungicides that have different modes of action. • Do not apply more than 5 applications of ENDORSE Water Dispersible Granules (3.5 oz ai/acre) per season. 		

FRUITING VEGETABLES (Except Cucurbits) †, ✱ [Eggplant, Groundcherry, Pepino, Pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, Tomato]		
Disease Control	Rate	Application Notes
Powdery Mildew (<i>Leveillula taurica</i> , <i>Oidiopsis sipula</i>)	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> Mix in appropriate spray volume appropriate for sufficient coverage. For all diseases, spray product preventatively and continue as needed on a 10-14 day interval. 0 day Preharvest Interval.
Botrytis Rot (<i>Botrytis</i> sp.)		
Early Blight (<i>Alternaria solani</i>)		
Disease Suppression		
Anthracnose (<i>Colletotricum coccodes</i>)		
Notes:		
† Not for Use in California.		
✱ For use in a greenhouse, lath house, shade house, hoop structure, or high tunnel structure for production of seedlings and transplants only. Not for field use. Not for production of edible commodities.		
<ul style="list-style-type: none"> Use in alternation with fungicides that have different modes of action. Do not apply more than 5 applications of ENDORSE Water Dispersible Granules (3.5 oz ai/acre) per season. 		

GINSENG †, ✱		
Foliar Disease Control	Rate	Application Notes
Alternaria blight (<i>Alternaria panax</i>)	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> Apply as a foliar spray every 7–10 days. Apply prior to disease development and when conditions are conducive for disease.¹
Botrytis blight (<i>Botrytis cinerea</i>)		
Root and Crown Disease Control	Rate	Application Notes
Cylindrocarpon root rot (<i>Cylindrocarpon destructans</i>)	6.2 oz/acre (0.7 oz ai/acre)	Apply as a drench every 14 days.
Rhizoctonia root and crown rot (<i>Rhizoctonia solani</i>)		Apply as a drench every 14–28 days.
Notes:		
† Not for Use in California.		
✱ For use in a greenhouse, lath house, shade house, hoop structure, or high tunnel structure for production of seedlings and transplants only. Not for field use. Not for production of edible commodities.		
¹ Consult your local extension agent or local recommendations for information relating to proper timing for control of these diseases.		
<ul style="list-style-type: none"> Apply within 2 weeks following plant emergence and continue throughout the season. Use in alternation with fungicides that have different modes of action. Do not apply more than 3 applications of ENDORSE Water Dispersible Granules (2.1 oz ai/acre) per season. 		

HERBS AND SPICES †, ✱		
[Allspice, angelica, anise, anise, star, annatto (seed), balm, basil, borage, burnet, camomile, caper buds, caraway, caraway, black, cardamom, cassia bark, cassia buds, catnip, celery seed, chervil (dried), chive, chive, Chinese, cinnamon, clary, clove buds, coriander leaf (cilantro or Chinese parsley), coriander seed (cilantro), costmary, cilantro (leaf), culantro (seed), cumin, curry (leaf), dill (dillweed), dill (seed), fennel (common), fennel, Florence (seed), fenugreek, grains of paradise, horehound, hyssop, juniper berry, lavender, lemongrass, lovage (leaf), lovage (seed), mace, marigold, marjoram, mustard (seed), nasturtium, nutmeg, parsley (dried), pennyroyal, pepper, black, pepper, white, poppy (seed), rosemary, rue, saffron, sage, savory, summer and winter, sweet bay, tansy, tarragon, thyme, vanilla, wintergreen, woodruff, and wormwood.]		
Disease Control	Rate	Application Notes
Alternaria blight <i>(Alternaria panax)</i> Anthracnose <i>(Colletotrichum)</i> Botrytis blight <i>(Botrytis cinerea)</i> Curvularia Petiole Rot <i>(Myrothecium)</i> Powdery Mildew <i>(Oidium sp.)</i> <i>(Erysiphe sp.)</i> <i>(Sphaerotheca sp.)</i> Rhizoctinia aerial blight <i>(Rhizoctonia solani)</i>	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> • Apply prior to disease development and when conditions are conducive to disease development. • Apply as a full coverage foliar spray with sufficient water for plant type and maturity (50-300 gallons/acre). • For all diseases, spray product preventatively and continue as needed on a 10-14 day interval. • 0 day Preharvest Interval.
Root and Crown Disease Control	Rate	Application Notes
Rhizoctonia root and crown rot <i>(Rhizoctonia solani)</i> Black Root Rot <i>(Thielaviopsis)</i>	8.0 oz/gal/acre (0.96 oz ai/ 100 gal/acre)	<ul style="list-style-type: none"> • Apply prior to disease development and when conditions are conducive to disease development. • Apply as a soil drench every 14-28 days. • 0 day Preharvest Interval.
Notes: † Not for use in California. ✱ For use in a greenhouse, lath house, shade house, hoop structure, or high tunnel structure for production of seedlings and transplants only. Not for field use. Not for production of edible commodities.		
<ul style="list-style-type: none"> • Use in alternation with fungicides that have different modes of action. • Do not apply more than 5 applications of ENDORSE Water Dispersible Granules (3.5 oz ai/acre) per season. • Product may harm herbs and spices, especially new leaves. Do not apply to herbs and spices without prior testing on a small number of plants. 		

STRAWBERRIES †, ✱		
Disease Control	Rate	Application Notes
Anthracnose Leaf and Fruit Rot <i>(Colletotricum sp.)</i> Botrytis Fruit Rot <i>(Botrytis cinerea)</i> Powdery Mildew <i>(Sphaerotheca macularis)</i>	6.2 oz/acre (0.7 oz ai/acre)	<ul style="list-style-type: none"> • Mix in appropriate spray volume appropriate for sufficient coverage. • Begin applications preventatively and continue as needed on a 7–10 day interval. • 0 day preharvest interval. • Do not apply by air. • Use of adjuvant may enhance coverage.
Notes: † Not for Use in California. ✱ For use in a greenhouse, lath house, shade house, hoop structure, or high tunnel structure for production of seedlings and transplants only. Not for field use. Not for production of edible commodities. <ul style="list-style-type: none"> • Use in alternation with fungicides that have different modes of action. • Do not apply more than 3 applications of ENDORSE Water Dispersible Granules (2.1 oz ai/acre) per season. 		

ORNAMENTALS		
Foliar Disease Control	Rate	Application Notes
Anthracnose <i>(Colletotrichum)</i> Botrytis blight <i>(Botrytis cinerea)</i> Curvularia leaf blight <i>(Curvularia sp.)</i> Downy Mildew <i>(Peronospora sp.)</i> <i>(Plasmopara sp.)</i> Powdery Mildew <i>(Oidium sp.)</i> <i>(Erysiphe sp.)</i> <i>(Sphaerotheca sp.)</i> Rhizoctonia aerial blight <i>(Rhizoctonia solani)</i>	0.25 – 0.5 lb/100 gal/acre (0.03 – 0.06 lb ai/100 gal/acre)	<ul style="list-style-type: none"> • Apply as a full coverage foliar spray every 7 – 10 days with sufficient water for plant type and maturity (50-300 gallons/acre). • Apply prior to disease development and when conditions are conducive to disease development. Consult your local extension agent or local recommendations for information relating to proper timing for control of these diseases.** • May be applied by ground or chemigation. Do not apply by chemigation in California.
Alternaria blight <i>(Alternaria panax)</i> Petiole Rot <i>(Myrothecium)</i> Apple scab <i>(Venturia inaequalis)</i>	0.5 lb/100 gal/acre (0.06 lb ai/100 gal/acre)	
Root and Crown Disease Control	Rate	Application Notes
Rhizoctonia root and crown rot *** <i>(Rhizoctonia solani)</i>	0.25 – 0.5 lb/100 gal/acre (0.03 – 0.06 lb ai/ 100 gal/acre)	<ul style="list-style-type: none"> • Apply prior to disease development or when conditions are conducive to disease development. • Apply as a soil drench every 14 – 28 days. • May be applied by ground or chemigation. Do not apply by chemigation in California.
Black Root Rot <i>(Thielaviopsis)</i>	0.5 lb (0.06 lb ai/100 gal/acre)	
Notes: <ul style="list-style-type: none"> • Use in alternation with fungicides that have different modes of action. • Follow Resistance Management Recommendations. • DO NOT apply more than 6 applications of ENDORSE Water Dispersible Granules per season or 12 months. ** Consult your local extension agent or local recommendations for information relating to proper timing for control of these diseases. *** Includes Christmas tree (nursery and plantation), non-bearing fruit vines, and non-bearing fruit and nut trees.		

TURF GRASSES				
Disease	Rate	Application Notes		
Control	2.4 lbs /acre (0.27 lb ai/acre)	<ul style="list-style-type: none"> • Repeat treatment on a 7-14 day schedule where environmental conditions are conducive to development of diseases. Consult your local extension agent or local recommendations for information relating to proper timing for control of these diseases. • When symptoms are present, best control will be achieved by using a shorter interval. • For best results apply after mowing. • Apply to obtain thorough plant coverage in a minimum of 66 gallons water per acre. • May be applied by ground or chemigation. Do not apply by chemigation in California. 		
Brown Patch (<i>Rhizoctonia solani</i>)				
Large Patch (<i>Rhizoctonia solani</i>)				
Aids in Control †				
Cool Season Brown Patch or Yellow Patch (<i>Rhizoctonia cerealis</i>)				
Foliar and Basal Anthracnose (<i>Colletotrichum cereale</i>)				
Gray Snow Mold (<i>Typhula ishikariensis</i> and <i>Typhula incarnate</i>)				
Leaf Spot/Melting Out (<i>Dreschlera poae</i>)				
Pink Snow Mold (<i>Microdochium nivale</i>)				
Red Thread (<i>Laetisaria fuciformis</i>)				
Rhizoctonia Damping Off (<i>Rhizoctonia solani</i>)	1 oz/1000 sq ft in minimum of 1 gallon of water (0.27 lb ai/acre in 66 gallons of water)	<ul style="list-style-type: none"> • Make two-three applications on a 7-day interval schedule. • Use a penetrating wetting agent. • Immediately following application, water in the treatment with sufficient irrigation (1/8-1/4") to wet the active root zone. • May be applied by ground or chemigation. Do not apply by chemigation in California. 		
Rhizactonia Leaf and Sheath Blight (<i>Rhizoctonia zea</i>)				
Waitea Patch (Brown Ring Patch) (<i>Waitea circinata</i>)				
Zoysia Patch (<i>Rhizoctonia solani</i>)				
Aids in Suppression †				
Gray Leaf Spot (<i>Pyricularia grisea</i>)				
Suppression and Short Term Control				
Fairy Ring (including <i>Marasmius</i> spp., <i>Lepiota</i> , spp. and <i>Agarius</i> spp.)				
Notes: † Not for Use in California. <ul style="list-style-type: none"> • With the exception for treatment of Fairy Ring, irrigation or rainfall soon after treatment with ENDORSE Water Dispersible Granules will decrease disease control. For best control, do not irrigate for 12 hours after treatment. • Use in alternation with fungicides that have different modes of action. • Follow Resistance Management Recommendations. 				

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in dry place away from food or feed.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed, by State and local authorities, by burning. If burned, stay out of smoke.

**FOR 24-HOUR CHEMICAL EMERGENCY (Spill, Leak, Fire or Accident) ASSISTANCE:
CALL CHEMTREC 1-800-424-9300**

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